

APPLN. F DATE: JULY 6, 2001
TITLE: NOVEL REGULATORY SEQUENCES OF THE MCP-1
GENE
INVENTOR(S): RÖSL ET AL
APPLICATION SERIAL NO: TBA

SHEET 1 of 10

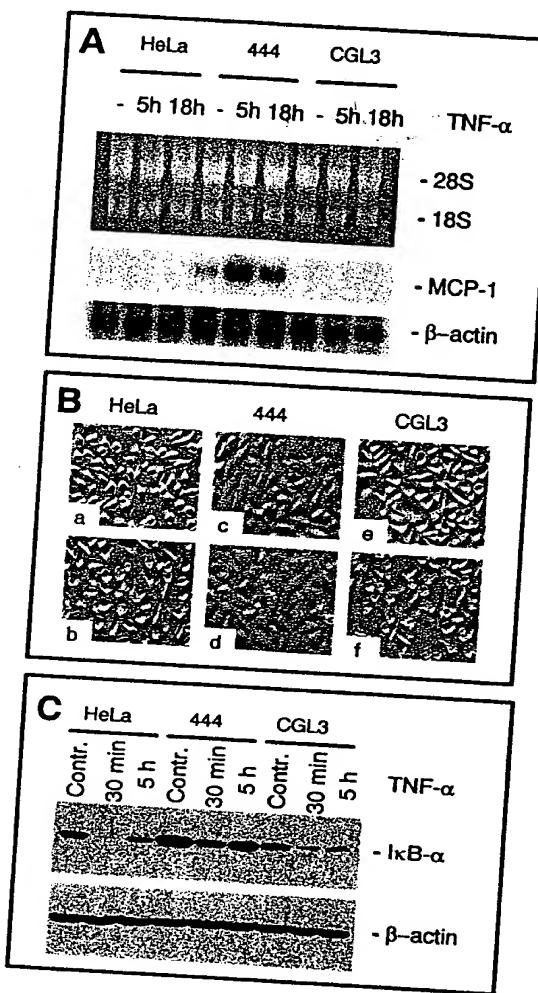


Fig. 1

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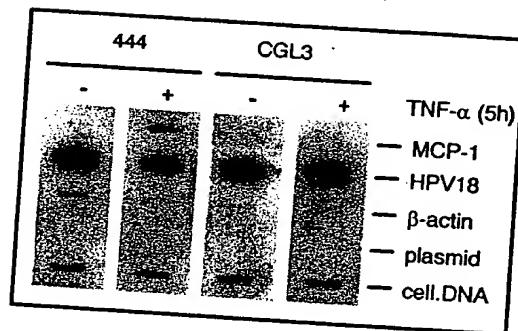


Fig. 2

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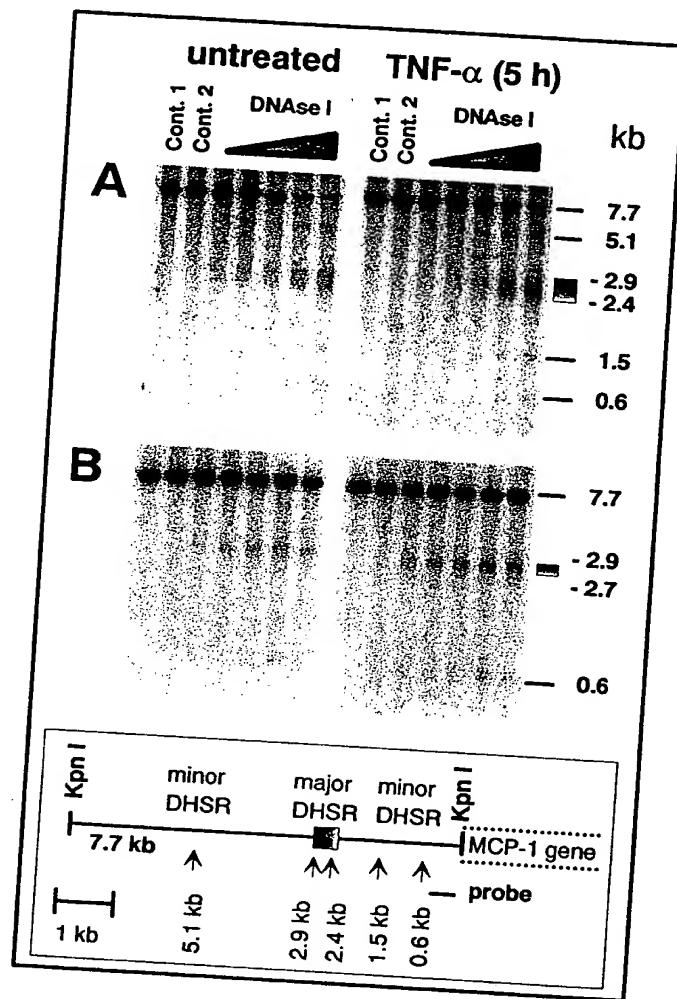


Fig. 3

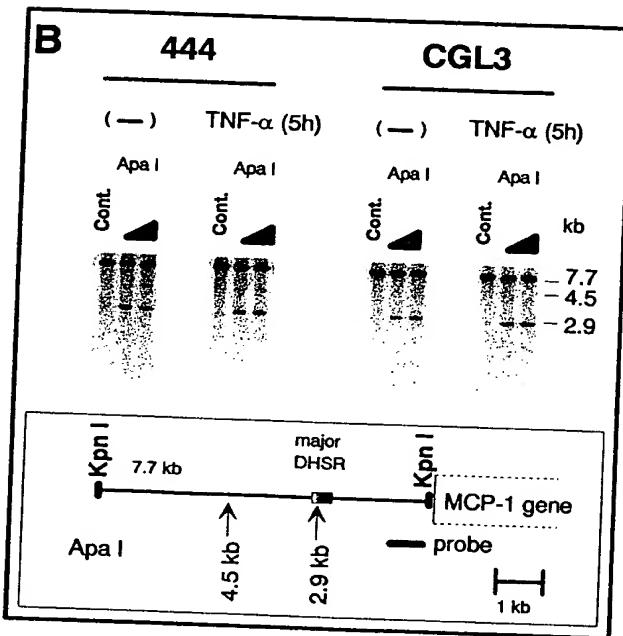
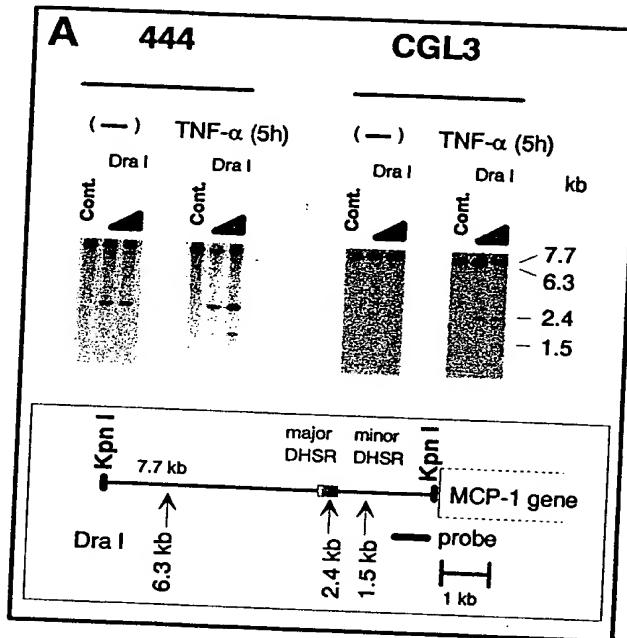


Fig. 4

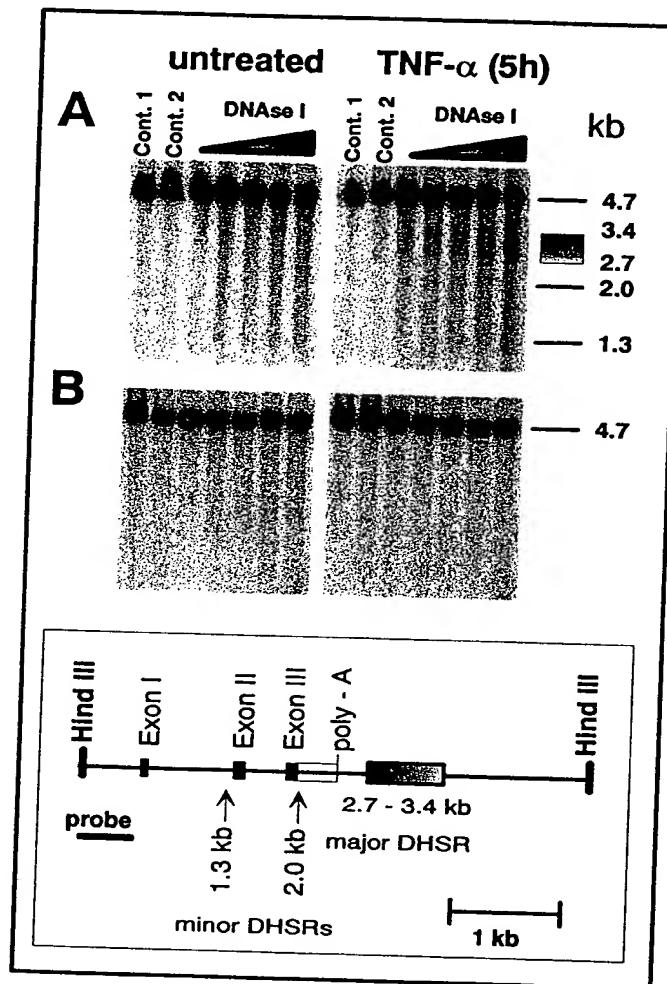


Fig. 5

Minor 5' DHSR (5.1 kb subfragment)

-5050 AAAATATAAA ATTAGCCAG GCGTGATGTC ATGTGCCTGT AGTCCCAGCT
SP 1
-5000 ACTCGGGAGG CTGAGGCAGG AGAACCTCTT GAATCCAGGA GGCGCAGGTT
-4950 GCAGTAGGCA GAGATAGTGC CACTGCACTC CAGCCTGGGT GACAGAGTGA
-4900 GACTCTGTCT CAAAAAAAATA AAATAAAAATA AAAAATGCAG ACTGTGATTTC
-4850 ACCAGGTCTG GGTTGAAGCC CAGAACTCTC TGATAAATTC AATGGCACTT
-4800 AACTACTTGG AGGTCACTGGA TGCCCTTGCT AATCTAATAG AAGCTACTGA

Major 5' DHSR (2.9 - 2.4 kb subfragments)

-2750 GGCTTGTGCC GAGATGTTCC CAGCACAGCC CCATGTGAGA GCTCCCTGGC
Apa I
-2700 TCCGGGCCA GTATCTGAA TGCAAGGCTCC AGCCAAATGC ATTCTCTTCT
NF-kB NF-kB
-2650 ACGGGATCTG GGAACCTCCA AAGCTGCCCTC CTCAGAGTGG GAATTCCAC
-2600 TCACTCTCT CACGCCAGCA CTGACCTCCC AGCGGGGGAG GGCATCTTTT
-2550 CTTGACAGAG CAGAAAGTGGG AGGCAGACAG CTGTCACTTT CCAGAAGACT
-2500 TTCTTTCTG ATTCACTACCC TTCACCTTCC CTGTTTTAC TGTCTGATAT
-2450 ATGCAAAGGC CAAGTCACTT TCCAGAGATG ACAACTCCTT CCTGAAGTAG
-2400 AGACATGCTT CCAACACTCA GAAGCTATG TGAAACACTCA GCCAGCAAAG
SP 1
-2350 CTGGAAGTTT TTCTCTGTGA CCATGGCTA ATTGGTCTCC TTCTCTGGAT
AP-1
-2300 TGTGGTTAT CAGATAAAA CAAGTGAGTC ATGCCACAGG ATGTCTATAA
-2250 GCCCATTGAT TCTGGGATTTC TATGAGTGTAT GCTGATATGA CTAAGCCAGG
Dra I
-2200 AGAGACTTAT TAAAGATCT CAGCATCTTT CAGCTTGTAA ACCTAGAGAA
-2150 AACCGAAGC ATGACTGGAT TATAAAGGGA AATTGAATGC GGTCCACCAA

Minor 5' DHSR (1.5 kb subfragment)

SP 1 Dra I
-1300 AAGGAGGAGG CAGTGGGCTA GGAGAACATCGA GAGATCAGAA TTTTAAACTC
-1250 AGCCAGCCA TTAACATGCC TCAAGTACTC CTATCATATT TGTAAAGAGAC
-1200 AACAGTCAC TGAAATGAAT TCTAAGGTCT TTGGGTTTT ATCAGTGTGC
NF-IL 6
-1150 TTCTGTAGTT TCTGAGGAAA TCTAAGGCAC AACTGAGGAA TGAAGTCAGG
-1100 CTTTCCAATT CCCGAAATAC TCCTCCACTG CTTACTCATG TCCCTTGGAA
-1050 ATTAAGAAGG AAGCCAGGAG CATAGCTGCC ATAACCAGGG ATGAACCTCT

Minor 5' DHSR (0.6 kb subfragment)

-500 AGGCTTCTAT GATGCTACTA TTCTGCATTT GAATGAGCAA ATGGATTAA
-450 TGCAATTGTCA GGGAGCCGGC CAAAGCTTGA GAGCTCCCTC CTGGCTGGGA
-400 GGGCCCTTGG AATGTGGCT GAAGGTAAGC TGGCAGCGAG CCTGACATGC
-350 TTTCATCTAG TTTCCTCGCT TCCTCCCTT TCTGCACTTT TCGCTTCACA
-300 GAAAGCAGAA TCCTTAAAAAA TAACCCCTCTT AGTTCACATC TGTGGTCAGT

Minor 3' DHSR (1.3 kb subfragment)

+750 CAAAGATCAC ATTCTAGCTC TGAGGTATAG GCAGAACGCAG TGGGATTAA
+800 TGAGCTTTT CTCTTCTCCT GCCTGCCTT TGCTTTTCC TCATGACTCT
+850 TTCTGCTCT TAAGATCAGA ATAATCCAGT TCATCCTAAA ATGCTTTTC

Minor 3' DHSR (2.0 kb subfragment)

+1550 TGCAGCTAAC TTATTTCCC CTAGCTTCC CCAGACACCT TGTTTATTT
NP-IL 6
+1600 TATTATAATG AATTTTGTAA TTGATGTGA AACATTATGC CTTAAGTAAT
+1650 GTTAATTCTT ATTTAAGTTA TTGATGTAAAGTTATCT TTCACTGGTAC
NP-IL 6
+1700 TAGTGTAAAG TAGATACAGA GACTTGGGA AATTGCTTT CCTCTTGTAC

Major 3' DHSR (2.7 - 3.4 kb subfragments)

NF-IL 6
+2430 TAGGAAAATT ATAGGATCAT TAAGAAAAGGA GAAGGAAGAG TGGGAGCAAA
+2480 TACCTGGAGG TAGAAATGGT GATGATGTGT ACATCAAGCA GGGAGAAAAC
+2530 CAATGAACCA GATGCGAATT CGGGCCCACA CCAATGTCAA GGGATGACAA
AP-1
+2580 TTAGAAAAGGA AGGTTGAGTC AAGGGATTG AATGTTAGGG TGAAAAGTTA
+2630 CTACTCACT CTGTAGGTTA AAAGGAAACG TTGAGAATCT TCAGTCCAAT
+2680 GAGGAGGGAT GTGCCATGTT TAGAGATTCA GAGATAAGTT TCAGGAAATG
+2730 TAACCTATAG ATTTTATACA TACACAGAGA AATACGGACT AGTGAGAAGC
+2780 TATTGCCATG GTCCAAGCAA GAGATGTGA AGGCCTAAAT ATGGAGCCAA
+2830 AGAGCCAGCA ATGAAAGAATG AGCCATGCAG GGTGAAATGC TGCATGTTGT
+2880 AAATGGAGGA GAAAGACCTG TGACTTCAGA TATGAAAACC TCATCTTCAA
+2930 CCCACATTAA AAGGGGGCAG CTTCCTGAA ACCAGAATGT GTTCCCTCC
+2980 ATTACTATAC CCCCATCCCA ATCTCAGGCA CCTGGAATCA TCCATTAA

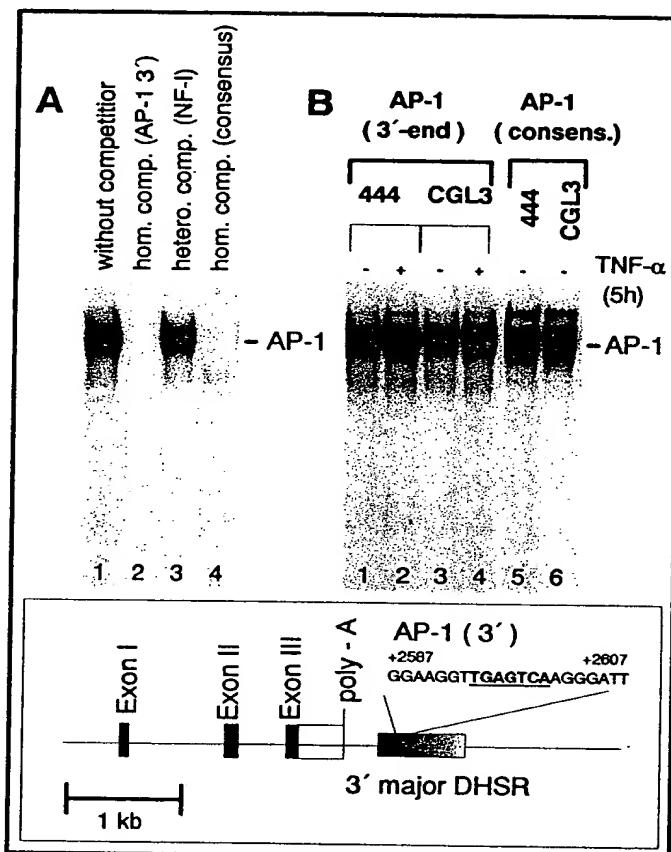


Fig. 7

APPLN. F

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REGULATORY SEQUENCES OF THE MCP-

GENE

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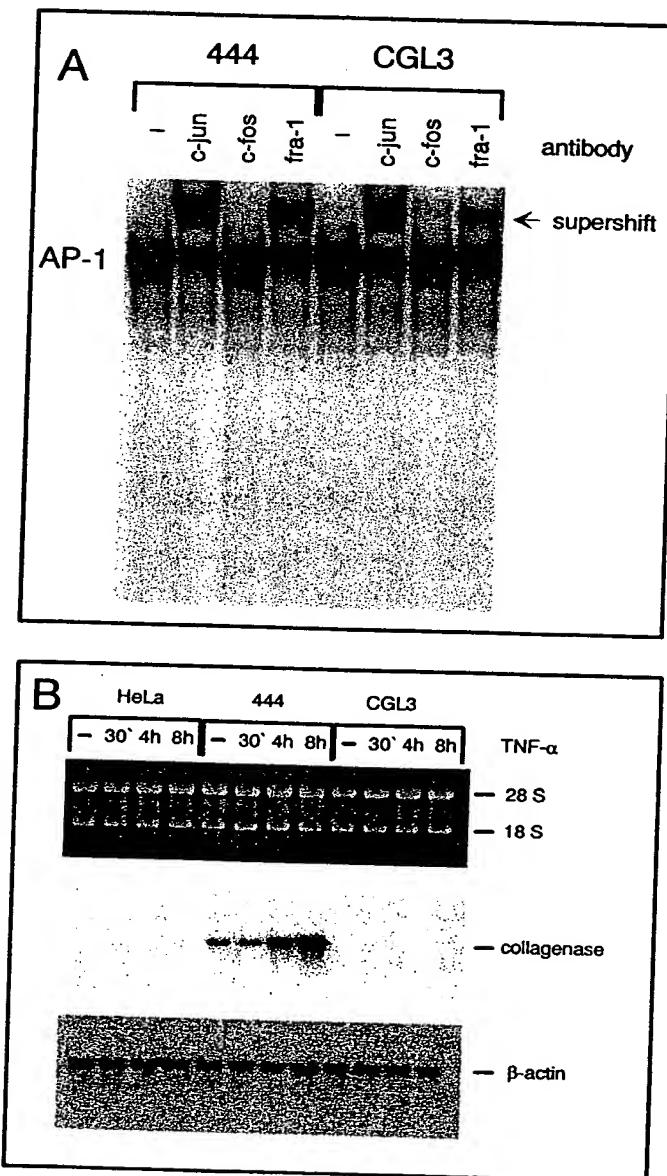
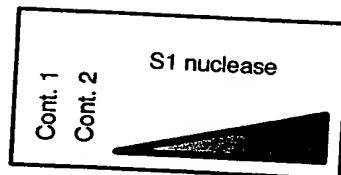


Fig. 8



4.7 kb
3.4 kb
3.2 kb
2.8 kb
2.1 kb
1.8 kb
← 0.6 kb

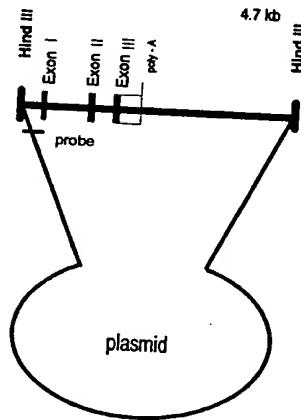
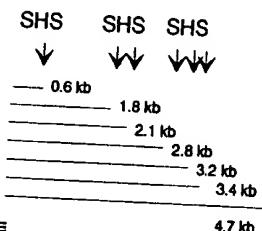


Fig. 9

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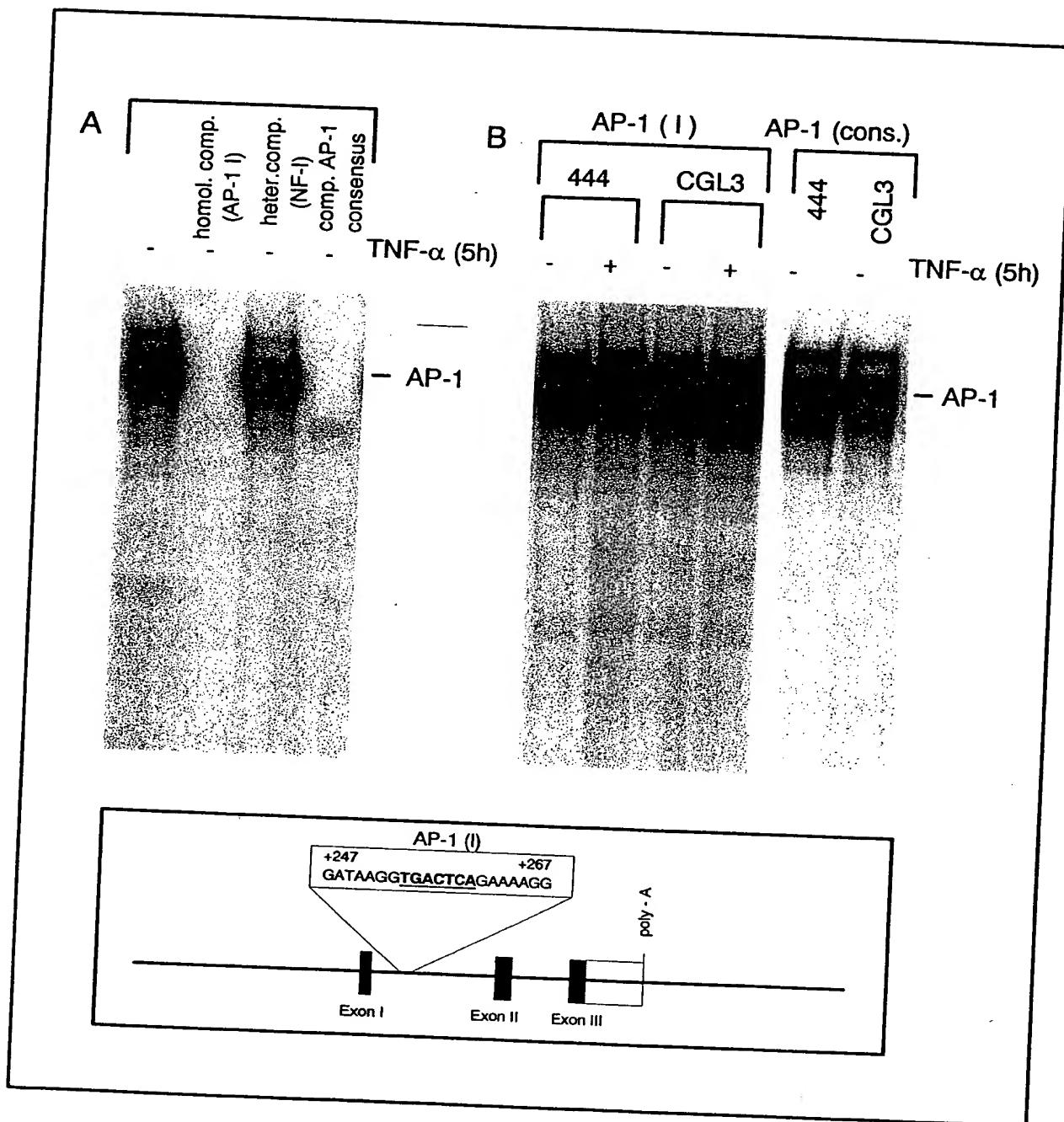


Fig. 10